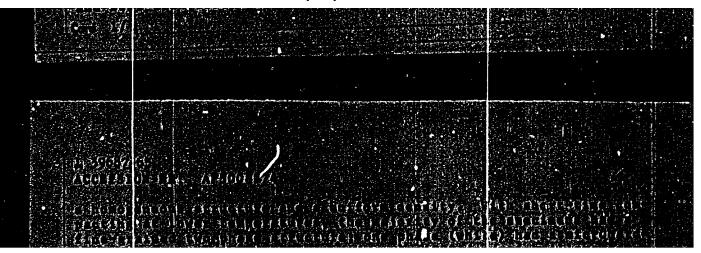
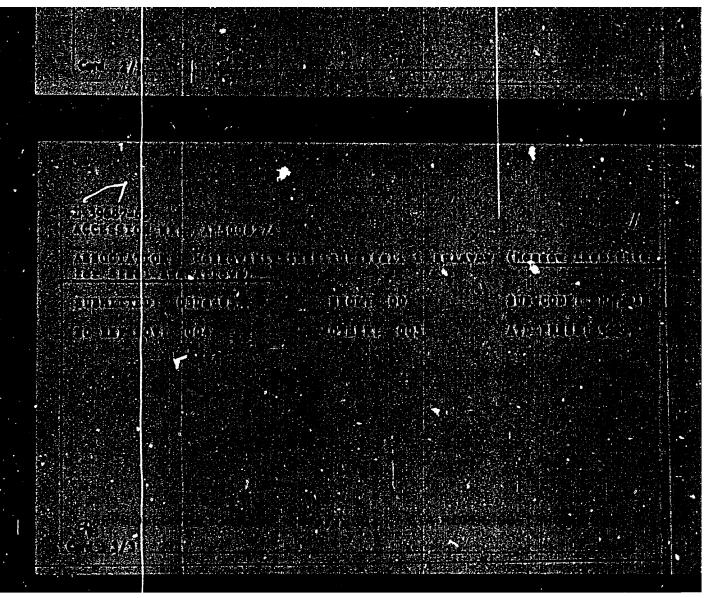
"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722610002-1

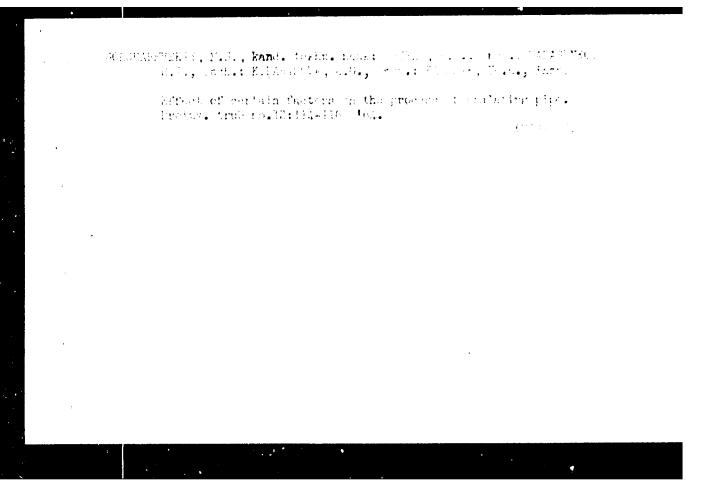


"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722610002-1



D'YACHKOV, M. and KIPARISOV, V.

"Accounting of Capital Constructions", published by State Publishers of Planning Literature, Moscow, 1948.



KIPARISZOVA, L. D.

PA 4T106

USSE/Geology

1945

"A Contribution to the Stratigraphy of the Lover Triessic of the South-Ussuri Constal Region (Primorskiy Kray)," L. D. Kiparissova, 3 pp

"CR Acad Sci" Vol XLIX, No 6

Geological study of coastal regions, in particular the east-west coasts of Ussuri Bay, Putiatin Esland, Abrek Bay of Strelck Strait, and the west coast of Amer Bay

47106

KIPARISOVA, L.D.; SEMENOVA, M.V., redaktor; MANINA, M.P., tekhnicheskiy

[New Lower Jurassic fauna of Priamurye] Novaia ninhneiurskaia fauna Priamur'ia. Moskva, Gos. izd-vo geol. lit-rv. 1952. 46 p.(MLRA 8:6)

(Amur River Valley-Geology, Stratigraphic)

KIPARISOVA, L. D.

PA 241T47

USSR/Geophysics - Triassic Fauna

Nov/Dec 52

"The Presence of Triassic Deposits in Tuarkyr," L. D. Kiparisova and V. S. Kurbatov

"Iz Ak Nauk SSSR, Ser Geol" No 6, pp 76-84

Describe the lower Triassic fauna, first discovered in 1950 by V. S. Kurbatov and M. P. Sukacheva in Tuarkyr, which makes it possible to compare, ascording to their content of ammonites of the Doricranite species, the lower Triassic deposits with the lower Triassic of the Mangishlak peninsula

<u> 241747</u>

VOLKOVA, N.S.; WIPARISOVA, L.D., redaktor; SPIRINA, N.I., redaktor; GUROVA, O.A., tekhnicheskiy redaktor.

[Field atlas of characteristic fama complexes of Tortiary deposits of Central Ciscaucasia] Polevoi atlas kharakternykh kompleksov fauny tretichnykh otloshenii Tsentral'nogo Predkavkas'ia. Moskva, Gos.nauchno-tekhn.isd-vo lit-ry po geologii i okhrane nedr. 1955. 161 p. (MLRA 8:11) (Caucasus, Northern-Palentology)

KIPARKSOVA, L.D.; POPOV, Yu.M.

Separation of the lower Triassic system into divisions. Dokl. AN SSSR 109 no.4:842-845 Ag 1956. (MLRA 9:10)

1. Vsesoyusnyy nauchno-issledovateliskiy geologicheskiy institut.
Predstavleno akademikom D.V. Nalivkinym.
(Geology, Stratigraphic)

VERESHCHAGIN, V.M., otv.red.; KRASHYY, L.I., otv.red.; VLASOV, G.M., red.; ZOLOTOV, M.G., red.; ZHAMOYDA, A.I., red.; KIPARISOVA, L.D., red.; MODZALEVSKAYA, red.; OMIKHIMOVSKIM, V.V., red.; SAVRASOV, M.P.; CHEMEKOV, Yu.F.; SKVORTSOV, V.P., red.; AVEKKIYEVA, T.A., tekhn.red.

[Resolutions of the Interdepartmental Conference on the Elaboration of Standard Stratigraphic Systems for the Far East] Resheniia soveshchaniia Moshvedomstvennogo soveshchaniia po raşrabotke unifitsirovannykh stratigraficheskikh skhem dlia Dal'nego Vostoka. Moskva, Gos.nauchno-tekhn. izd-vo lit-ry po geol. i okhrane nedr. 1958. 51 p. (MIRA 12:3)

1. Meshvedomstvennoye soveshchaniye po rasrabotke unifitsirovannykh stratigraficheskikh skhem dlya Dal'nego Vostoka, Khabarovsk, 1956.
2. Predsedatel' Orgkomiteta Meshvedomstvennogo sqveshchaniya po rasrabotke unifitsirovannykh stratigraficheskikh skhem dlya Dal'nego Vostoka (for Krasnyy). (Soviet Far East-Geology, Stratigraphic)

Comparison of the Triassic stratigraphy of the countries around the Pacific Ocean. Biul.VSEGEI no.1:27-40 158. (MIRA 14:5) (Pavific area—Geology, Stratigraphic)

KIPARISOVA L.D.

ANIKEYEV, N.P., glavnyy red.; BISKE, S.F., red.; BOBYLEVSKIY, V.I., red.: VAS'KOVSKIY, A.P., red.; VERESHCHAGIN, V.W., red.; DRABKIN, I.Ye., red.; YEVANOULOV, B.B., red.; YEPIHOVA, A.P., red.; ZIMKIN, A.V., red.; LARIN, N.I., red.; LIKHAREV, B.K., red.; MENRER, V.V., red.; MIKHAYLOV, A.F., 1ed.; NIKOLAYEV, A.A., red.; POPOV, G.G., red.; POPOV, Yu.N., red.; SAKS, V.N., red.; SEMEYKIN, A.I., red.; SIMAKOV, A.S., red.; TITOV, V.A., red.; SHILO, N.A., red.; KL'YANOV, M.D., red.; YAKUSHEV, I.R., red.. V redaktirovanii prinimali uchastiye: ANDREYEVA, O.N., red.; BAYKOVSKAYA, T.N., red.; BOLKHOVITINA, N.A., red.; BORSUK, M.O., red.; VASIL'YEV, I.V., red.; VASILEVSKAYA, H.D., red.; VOYEVODOVA, Ye.M., red.; YEVSEYEV, K.P., red.; KIPARI-SOVA, L.D., red.; KRASNYY, L.I., red.; KRISHTOPOVICH, L.V., red.; KULIKOV, M.V., red.; LIBROVICH, L.S., red.; MARKOV, F.G., red.; MODZALEVSKAYA, Yo.A., red.; MIKIFOROVA, O.I., red.; OBUT, A.M., red.; PCHELINTSEVA, G.T., red.; RZHONSNITSKAYA, M.A., red.; SEDOVA, M.A., red.; STEPAHOV, D.L., red.; TIMOFEYEV, B.V., red.; KUIDOLEY, K.M., red.; CHEMEKOV, Yu.F., red.; CHERNYSHEVA, N.Ye., red.. DERZHAVINA, N.G., red.izd-va: GUROVA, O.A., tekhn.red. (Continued on next card)

ANIETEV, N.P.——(continued) Card 2.

[Decisions of the Interdepartmental Conference on the Unified Stratigraphic Columns of the Northeastern Part of the U.S.S.R.]

Resheniia Mezhvedomstvennego soveshchaniia po razrabotke unifitsirovannykh stratigraficheskikh skhem dlia Severo-Vontoka SSSR.

Moskva, Gos.nauchno-tekhn.izd-vo lit-ry pc geol. i okhrane nedr.

1959. 65 p. (MIRA 13:2)

1. Mezhvedomstvennoye soveshchaniye po razrabotke unifitsirovannykh stratigraficheskikh skhem dlya Severo-Vostoka SSSR, Magndan, 1957. (Soviet Far East--Goclogy, Stratigraphic)

ORLOV, Yu.A., glavnyy red.; MARKOVSKIY, B.P., zam.glavnogo red.; RUZHERTSEV, V.Ye., zamestitel' glavnogo red.; SOKOLOV, B.S., zamestitel' glavnogo red.; EBERZIN, A.G., otv.red.tome; KIPARISQVA, L.D., red.; SHIMANSKIY, V.N., red.; VAKHRAMEYEV, V.A., red.; GEKKER, R.F., red.; GROMOVA, V.I., red.; DAVITASHVILI, L.Sh., red.; KRYMGOL'TS, G.Ya., red.; LUPPOV, N.P., red.; OBRUCHEV, D.V., red.; OVEC.KIN, N.K., red.; POKROVSKAYA, I.M., red.; PCHELINTSEV, V.F., red.; RADCHENKO, G.P., red.; RAUZER-CHERNOUSOVA, D.M., red.; RODENDORF, B.B., red.; ROZHDESTVENSKIY, A.K., red.; FIEROV, K.K., red.; FURSENKO, A.V., red.; KHABAKOV, A.V., red.; CHERNYSHEVA, N.Ye., red.; KORDE, K.B., red.; zd., red.; POLENOVA, T.P., tekhn.red.

[Fundamentals of paleontology; reference book in 15 volumes for paleontologists and geologists of the U.S.S.R.] Osnovy paleontologii; spravochnik dlie paleontologov i geologov SSSR v pist-nadtsati tomakh. Moskva, Izd-vo Akad.nauk SSSR. Vol.3. [Mollusks: Loricata, Bivalvia, Scaphopoda] Molliuski - pantsirnye, dvustvorchatye, lopatonogie. Otvet.red. A.G.Kberzin, 1960. 299 p. (Mollusks, Fossil) (MIRA 14:1)

MAFKOVSKIY, B.P., otv.red.; ZANINA, I.Ye., red.; KIPARISOVA, L.D., red.; MIKLUKHO-MAKLAY, K.V., red.; POKROVSKAYA, I.M., red.; RALCHENKO, G.P., red.; GOROKHOVA, T.A., red.izd-ve; GUROVA, O.A., tekhn.red.

[New species of ancient plants and invertebrates of the U.S.S.R.] Novye vidy drevnikh rastenii i bespozvonochnykh SSSR. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po geol. i okhrane nedr. Pt.2. 1960. 521 p. (MIRA 13:10)

1. Leningrad. Vsesoyuznyy geologicheskiy institut. (Invertebrates, Fossil)

MARKOVSKIY, B.P., otv.red.; ZANINA, I.Ye., red.; KIPARISOVA, L.D., red.; MIKLUKHO-MAKLAY, K.V., red.; POKROVSKAYA, I.M., red.; RADCHENKO, G.P., red.; ROSSOVA, S.M., red.izd-va; GUROVA, O.A., tekhn.red.

[New species of ancient plants and invertebrates of the U.S.S.R.]
Novye vidy drevnikh rastenii i bespozvonochnykh SSSR. Moskva,
Gos.nauchno-tekhn.izd-vo lit-ry po geol. i okhrane nedr. Pt.1.
1960. 611 p. (MIRA 13:12)

1. Leningrad. Vsesoyuznyy geologichaskiy institut. (Paleontology)

BOBKOVA, Natal'ya Nikolayevna; KIPARISOVA, L.D., nauchnyy red.; SEGAL', Z.G., vedushchiy red.; SAFRONOVA, I.M., tekhn.red.

[Late Cretaceous oysters in the Tajik Depression] Pozdnemelovye ustritsy Tadzhikskoi depressii. Leningrad, Gostoptekhizdat, 1961. 139 p. (Leningrad. Vsesoiuznyi geologicheskii institut. Trudy, vol.50).

(Tajik Depression—Oysters, Fossil)

FOPOV, Yu.N.; KIPARISOVA, I.D., starshiy nauchbyy sotralnik, kand.geol.-mineral.nauk, red.; ABrlvich, P.L., red.izd-va; IVANOVA, A.G., tekhn.red.;

[Triassic Ammonoidea of the northeastern U.S.S.R.; paleontological tasis of the stratigraphy of Triassic sediments in the northeastern U.S.S.R.] Triasovye ammonoidei Severo-Vostoka SSSR; paleontologicheskoe obosnovanie stratigrafii triasovykh otlozhenii Severo-Vostoka SSSR. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po geologii okhrane nedr, 1961. 178 p. (Leningrad. Nauchno-issledovatel'skii institut geologii Arktiki. Trudy, vol. 79). (MIRA 14:12)

Notes on Late Triassic bivalve "Anaucella" ussuriensis (Vor.).
Inform.sbor.VSMEI no.47:97-103 '61. (MFA 15:4)

(Lemellibranchietz, Fossil)

KIPARISOVA, Igubov' Dmitriyevna; POPOV, Iu.N., nauchnyy red. MANKUSHIN, V.A., tekhn.red.

[Paleontologic basis for the stratigraphy of Triassic sediments of the Maritime Territory] Paleontologicheskoe obosnovanie stratigrafii triasovykh otlozhemii Primorskogo kraia. Leningrad. Otdel nauchno-tekhn. informatsii VSEGEI. Pt.1: [Cephalopoda] Golovonogie molliuski. 1961. 277 p. (Leningrad, Vsesoiuznyi geologicheskii institut. Trudy, vol.48).

(MIRA 14:12)

(Maritime Territory—Cephalopoda, Fossil)

KIPARISOVA, L.D.; AZARYAN, N.R.

New genus Nairites of Late Triassic Ceratites in the Armenian S.S.R. Paleont.zhur. no.1:53-57 163. (MIRA 16:4)

l. Vsesoyuznyy nauchno-issledovatel'skiy geologicheskiy institut leningrad i Institut geologicheskikh nauk AN Armyanskoy SSR, Yerevan. (Armenia—Ceratitidae, Fossil)

NALIVKIN, D.V., glav. red.; VERESHCHAGIN, V.N zam. glav. red.;

MENNER, V.V., zam. glav. red.; OVECHKIN, N.K., zam. glav. red.[deceased]; SOKOLOV, B.S., zam. glav. red.; SHANTSER, Ye.V., zam. glav. red.; KELLER, B.M., otv. red. toma;

MODZALEVSKAYA, Ye.A., red.; CHUGAYEVA, M.N., red.;

GROSSGEYM, V.A., redaktor; KIPARISOVA, L.D., redaktor; KOROBKOV, M.A., red.; KRASNOV, I.I., red.; KRYMGOL'TS, T.Ya., red.; LIBROVICH, L.S., red.; LIKHAREV, B.I., red.; LUPPOV, N.P., red.; NIKIFOROVA, O.I., red.; QBRUCHEV, S.V., red.; POLKANOV, A.A., red.[deceased]; RENGARTEN, V.P., red.; STEPANOV, D.L., red.; CHERNYSHEVA, N.Ye., red.; SHATSKIY, N.S., red. [deceased]; EBERZIN, A.G., red.; GOROKHOVA, T.A., red.izd-va; GUROVA, O.A., tekhn. red.

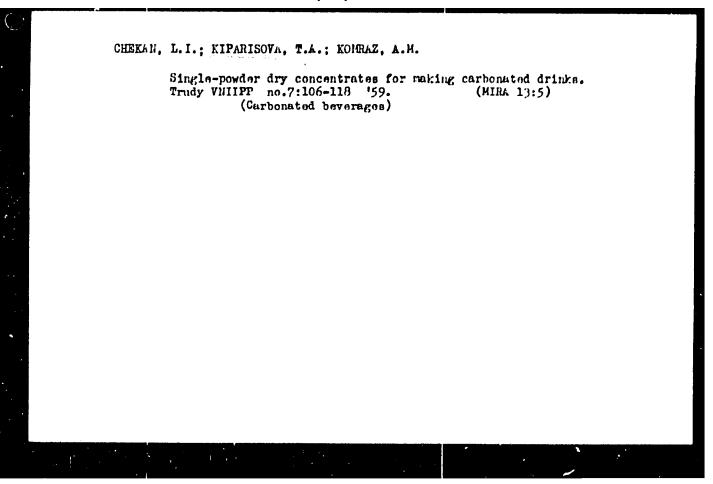
[Stratigraphy of the U.S.S.R. in fourteen volumes] Stratigrafiia SSSR v chetyrnadtsati tomakh. Moskva, Gosgeoltekhizdat. Vol.2. [Upper Pre-Cambrian] Verkhnii dokembrii. Otv. red. B.M. Keller. 1963. 716 p. (MIRA 17:1)

1. Chlen-korrespondent AN SSSR (for Sokolov).

KIPARISOVA, L.D.; AZARYAN, N.R.

First find of genus Cassianella in the Rtiassic of Transcaucasia.
Paleont. zhur. no.4:91-93 '65. (MIRA 19:1)

1. Vsesoyuznyy nauchno-issledovatel skiy geologicheskiy institut i Institut geologicheskikh nauk AN Armyanskoy SSR. Submitted April 5, 1964.



KIPATOV, K. G.

Irrigation farming

Conference of the All-Union Lenin Academy of Agricultural Sciences on problems of exploitation of irrigated lands. Sov. agron. 10 No. 5, 1952.

Monthly List of Russian Accessions, Library of Congress, August 1952. UNCLASSIFIED.

KITATOV, S. M.

S. M. Kipatov and S. 1. Meyersson

"Thermodynamic Properties of Folymer Solutions. Influence of Temperature on the Heat of Solution of Folymers in Different Liquids", Colloid Journal 12, 122-30, April 1950, Moscow, Textile Institute.

AUSTRACT AVAILABLE

D-50054

KIPCHEV, Iv., dote-only TORTOGIKOV, I., MIRCHEV, M., KONEV, K.

Our experience with the treatment of geometric and open inclumes. Knoringlin 19 mo.20188.jei th...

1. In valuable vectors included include.

MARTYNYUK, F.; KIPCHUK, T., inzh.

We increase the production of silicate brick. Sil'.bud. 12 no.7:15-16 J1 '62. (MIRA 15:8)

1. Predsedatel' soveta Dzerzhinskogo mezhkolkhozstroya Zhitomirskoy oblasti (for Martynyuk).

(Sand-lime brick)

Tear's wor! Mr '60.	k under the new condition	ns. Zdraw. Belor. 6 no.3:16-1 (MIRA 1
1. Glavnyy	vrach Voloshinskogo rayo (VOLOZHIN DISTRICTPU	DA

KIPATOVA, N. YA. .

"Changes Arising in the Higher Nervous Activity of Dogs Under the Influence of Irraliation by Roentgen Rays of the Cervical Section of the Vegetative Nervous System," by F. P. Mayorov, B. V. Paylov, and M. Ya. Kipatova, Laboratom of Physiology and Pathology of Higher Nervous Activity (head, F. P. Mayorov), Trudy Instituta Fiziologii imeni I. P. Pavlov (Works of the Institute of Physiology imeni I. P. Pavlov), Moscow-Leningrad, Publishing House of the Academy of Sciences USSR, Vol 5, 1956, pp 79-102

Tests were conducted on five dogs in an effort to explain the influence of repeated irratiation by large doses of X rays (6,000 and 8,000 r) of the neck of: (1) intact dogs, (2) dogs with both superior cervical sympathetic ganglia removed, and (3) dogs with splanchnic nerves removed on both sides. The method used was that of salivary secretion.

•

KIPATOVA NYA.

SUM.1305

Results proved that irradiation of the neck by X rays at the site of the distribution of superior cervical sympathetic ganglia caused different changes in the higher nervous activity of intact and partially sympathetic mized dogs. Thus: (1) In intact dogs there was a strong reduction in the value of conditioned and unconditioned reflexes, and these changes were of an irreversible nature for a long time. In certain cases hypnotic phases appeared which continued up to 3 weeks. (2) Irradiation by similar doses (6,000 and 8,000 r) of the neck of dogs who had undergone removal of the superior cervical sympathetic ganglia and those with severed splanchnic nerves mused in some cases a significant and prolonged rise of positive conditioned reflexes and in others their fall.

Histological changes in internal organs are described.

[Radio physics] Radiofikacija. Riga, Latvijas Valsts izdevnieciba, 1962. 281 p. (MIRA 16:4)

(Radio physics] (Radiofikacija. Riga, Latvijas Valsts izdevnieciba, 1962. 281 p. (MIRA 16:4)

- 1. KIPENTENKO, A. EEG
- 2. USSR (600)
- 4. Tiles
- 7. Stacking and burning of the tile in ground-type kilns. Sel'. stroi. 2 no. 7, 1952.

9. Monthly List of Russian Accessions, Library of Congress, March 1953. Unclassified.

KIFENVARLITS, A. F.

Medicine

Measures against wireworms on peat soils; Minsk, Ekademiia nauk Pelorusskoi SSR, 1951.

Monthly List of Russian Accessions, Library of Congress, May 1952. UNCLASSIFIED.

KIPENVARLITS, A.F., kandidat biologicheskikh nauk.

Click beetle density in peat soil gransland crop rotation areas. Sbor.nauch.trud.Inst.biol.AN BSSR no.2:46-61 '51. (VIRA 9:1)

(Click beetle)

KIPENVARLITS, A.F., kandidat biologicheskikh nauk.

Benzene hexachloride as an agent for combating wireworms on peat soil. Sbor.nauch.trud.Inst.biol.AN BSSR no.2:73-95 \$51. (MLRA 9:1)

(Wireworm) (Benzene hexachloride)

KIPENVARLITS, A.F.

Clanges in soil fauna of marshes under the influence of land improvement. Zool.zhur. 32 no.3:348-357 My-Je '53. (MLRA 6:6) 1. Institut sotsialisticheskogo sel'skogo khozyaystva Akademii nauk SSSH. (Soil fauna)

USSR / General and Specialized Zoology. Insects.

Abs Jour: Ref Zhur-Biol., No 2, 1958, 6749.

Author Inst

: Kipenvarlits, A. F., Khot'ko, A. I. : Institute of Socialist Agriculture, AS BSSR. Title : The Role of Entrapping Baits in the Control of Injurious Insects in Turfy Podzolic Soils.

Orig Pub: Sb. nauchn. tr. In-ta, sots. s.-kh. AN BSSR,

Abstract: Entrapping baits made of cereal vegetation with the admixture or various grasses concentrate the insects and also myriapods and spiders. Beetles predominate among the insects: 81 species are listed, among which 44 were injurious. Numerically, among those attracted by the bait, first place is occupied by the Elateridae; second place - by phytophagous carabidae. On the turfy podzo-

Card 1/2

UESR / General and Specialized Zoology. Insects.

P

Abs Jour: Ref Zhur-Biol., No 2, 1958, 6749.

Abstract: lic soils and peat-bog soils of the Belorussian SSR, baits laid out in the period of the mass emergence of the Elateridae from the ground lin the last 10 or 20 days of May, immediately after the planting of potatoes), may concentrate all of the Elateridae from a given area, and thus avert its infestation with Elaterid larvae of the new generation. For one hectare, 100 baits were used, in the form of 2-3 handfuls of vegetation. The baits should be treated with a hexachlorocyclohexane suspension (2 kilograms of 12% dust and 50 liters of water per 100 baits). --A. P. Adrianov.

Card 2/2

8

USSR / General and Special Zoology. Insects.

Abs Jour: Ref Zhur-Biol., No 4, 1958, 16423

Author : Kipenvarlits A.F., Zenkevich V.I.

Inst : Institute of Socialist Agriculture Academy of

Sciences Belorussian Soviet Socialist Republic.

Tit_e : On the Problem of the Control of Wire-shaped In-

sects in the Maize Fields in the Belorussian Soviet Socialist Republic. (K voprosu bor'by s provolochnikamı na posyevakh kukuruzy v usloviyakh

BSSR).

Orig Pub: Sb. nauchn. tr. In-t sots.s.kh. AN BSSR, 1956,

vyp. 4, 290-312.

Abstract: When maize was planted among potatoes more wire-

shaped insects were found in maize clusters than on maize planted in grasses. In the latter case the insects fed also on decaying grass roots.

Card 1/2

19

ADS Jour: Kipenvarlits A.F., Zenkevich V.I.

Abstract: When there was little insect infestation (5-10

insects per 1 m²) treatment of sects 100 (5-10 APPROVED FOR RELEASE) 09/17/2904ntinC14 & DPS6-00513R000722610002-1"

In an infestation with wire-shaped insects (more than 10 insects on 1 m²) the most effective treatment was the introduction of HCCH into the soil before cultivation (100 kg/hectare of a 12% dust). The administration of HCCH into maize (6-8 kg/ hectare) was economically advantageous. When the maize sprouts, planted without treating the soil and the seeds, were discovered to be camaged, dusting (200 ml to a cluster) with a 0.3% suspension of a 12% HCCH dust was needed on the manure fertiUSSR/General and Special Zoology - Insects.

P.

Abs Jour

: Ref Zhur - Biol., No 7, 1958, 30546

Author

Kipenvarlits, A.F.

Inst

Title

The Length of Maturation and the Food Region of the

Striped Elater (Agriotes lineatus) under BSSR Conditions.

Orig Pub

: Zool.zh., 1957, 36, No 2, 219-224.

Abstract

: The striped beetle in Byelorussia matured in 5 years; the larvae developed in 4 years. The period of mass going into the chrysalis stage lasted from the end of July to the 10th of August. The chrysalis stage lasted about 2-3 weeks. The mass transformation of the pupae into beetles took place in the second half of August. The imago stage lasted about 11 months. The period of inactivity of the beetles lasted from August up to and including April, the active life was in May and June. At the end of June and in July the beetles perished.

Card 1./2

KIPENVARLITS, Aleksandra Fedorovna, kard. biol. nauk; GILYAROV, M.S., prof., red.; KOVALENKO, A.G., red.; YERMILOV, V.M., tekhn. red.

[Change in the soil fauna in lcwland bogs under the effect of drainage and use in agriculture] Izmenenie pochvennoi fauny nizinnykh bolot pod vliianiem melioratsii i sel'skokhoziafstvennogo osvoeniia. Pod red. M.S.Giliarova. Minsk, Sel'khozgiz BSSR, 1961. 196 p. (MIRA 16:6)

(White Russia-Soil fauna) (White Russia-Swamps)

LIPTUCA, N.V., inzh.; MIROSHNICHENKO, A.G., inzh.; NEMCHENKO, C.V., inzh.; KIPER, I.K., inzh.

Obtaining high-strength cast iron by smelting in cupola furnaces with a mixture of thermoanthracite and coke. Mashinostroenie no.3326-27 My-Je 165. (MIFA 18:6)

KIPER, I.M.

USSR/Cultivated Plants - Potatoes: Vegetables. Melons. etc.

M.

Abs Jour

: Ref Zhur - Biol., No 4, 1958, 15593

Author

: I.M. Kiper

Inst

: The V.V. Dokuchayev Institute.

Title

: The Agrotechny of Seed Potato Crops.

(Ob agrotekhnike vyrashchivaniya semennogo kartofelya).

Orig Pub

: Kartofel', 1957, No 2, 39-40.

Abstract

: At the V.V. Dokuchayev Institute the effect of potato planting methods on the seed tuber output was studied in the south-east central chernozem soil belt. When square cluster sowing was used the seed tuber output did not go above a yield of 40%. Increasing the density of planting at the expense of reducing the distance between clusters from 70 to 60 cm raised the output of standard tubers only by an insignificant amount.

Card 1/2

KIPER, I.M.

COUNTRY : USSR CATEGORY : Cultivated Plants. Potutoes, Vegetables, Cucurbits. M : RZhBiol., No.23 1998, No. 104681 ABS. JOUR. AUTHOR : Kiper . L. Harris : Scientific Research Institute of Agriculture of Central *) INST. : On Increasing the Gross Yields of Potatoes in Voronezh TITLE Oblast'. : Byul. nauchno-tekhn, inform, n.-i. in-ta s.-kh. ORIG. PJB. tsentr.-chernozema. polosy, 1957, No. 3, 25-27 : It was determined that in Voronezh oblast', it is possible ABSTRACT to secure potato yields of 115-200 centuers/ha without irrigation and 250-300 centners/he with irrigation. It is recommended to distribute the seen plots on irrigated and river valley lands and at the bottom of revines. The seed potatoes should be grown with close in-row planting (70 x 30 cm). In southern and southeastern regions, all seed potatoss of seriy and intermediato-early varieties should be grown with summer plenting. In northern regions, summer planting is recommended for roguing the seeding material. *)Chernozem Belt. Card: 1/2

COUNTRY CATEGORY М ABS. JOUR. : RZhBiol., Ne. 1978, No. 104681 AUTHOR IMST. TITLE ORIG. PUB. : ; for which allocation of 1/5 of the seed plot is sufficient. ABSTRACT In regions with inadequate amount of precipitation, it is expedient to plant one tuber per planting hole on a space of 60 x 60 cm; with irrigation - 2 tubers to a hill on a space of 70 x 60 cm or 60 x 60 cm. Local application of 3-6 tons/hu of huma in mixture with 1.2-2.4 centners of Fe produced an increase in the yield of 14-22 centners/ha. --Ye. A. Okorokova Card: 2/2 47

KIPER, I.M., kand.sel'skokhozyaystvenwykh nauk

Breeding potatoes for early maturity. Agrobiologia no. 3:350-355 My-Je 160. (MIRA 13:12)

1. Nauchno-issledovatel'skiy institut sel'skogo khozyaystva TSentral'no-chernozemnoy polosy imeni Dokuchayeva. (Potato breeding)

KIPER, I.M., kand.sel'skokhozyaystvennykh nauk

Breeding high-yielding varieties of early potatoes. Agrobiologiia no.2:184-187 Mr-Ap 162. (MIRA 15:4)

1. Nauchno-issledovatel'skiy institut sel'skogo khozyaystva TSentral'no-chernozemnoy polosy imeni V.V.Dokuchayeva Voronezhsskaya oblast'.

(Potato breeding)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722610002-1"

KIPER, Ye.V., kand. tekhn. nauk; CHERKUN. V.Ye., kand. tekhn. nauk; MOROZOV, V.I., inzh.; BOGAYEVSKIY, V.A.

Errors in machining the body-slide valve pair of hydraulic distributors. Trakt. i sel'khozmash. 33 no.11:40-42 N '63.

1. Melitopol'skiy institut mekhanizatsii sel'akogo khozyaystva (for Kiper, Cherkun, Morozov). 2. Glavnyy tekhnolog Melitopol'skogo agregatnogo zavoda (for Bogayevskiy).

KIPER, Ye.V., MIKHAYIENKO, V.F., KOVALEV, 1.7.

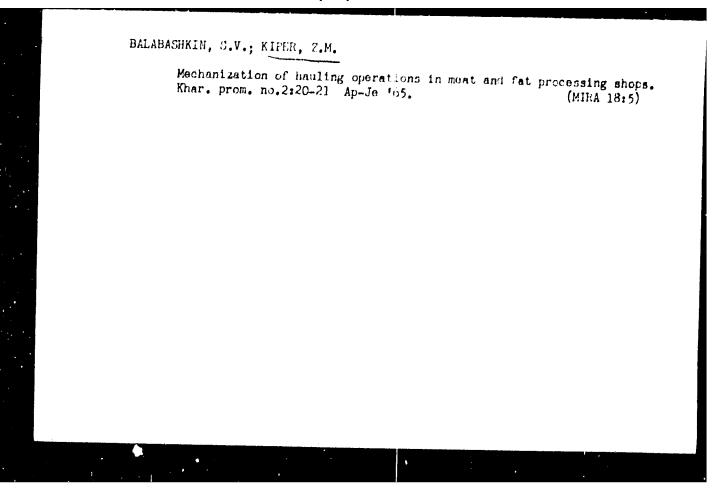
Reliability potentials of the automatic turnet lathes. Stan. 1 instr. 36 no.5%10-11 My *65. (MIRA 18:5)

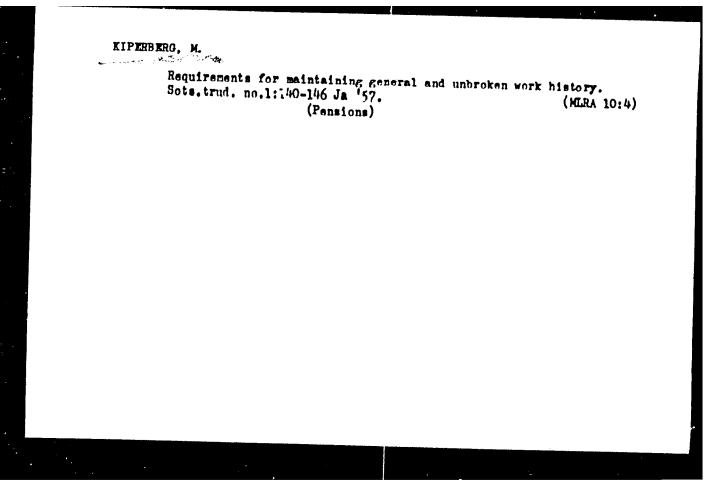
KIPER, Ye.V., kand.tekhn.nauk; CHERKUN, V.Ye., kand.tekhn.nauk; MOROZOV, V.I., inzh.; BOGAYEVSKIY, V.A.

Precision in machining holes on the body of hydraulic distributors by various methods. Trakt. i sel'khozmash. no.9:41-42 S *65.

(MIRA 18:10)

1. Melitopol'skiy institut mekhanizatsii sel'skogo khozyaystva (for Kiper, Cherkon, Morozov). 2. Glavnyy tekhnolog Melitopol'skogo agregatnogo zavoda (for Bogayevskiy).





KIPERINA, A. V.

B. A. Kazanskii, A. V. Kiperina, and O. A. Zemskaya - "Concerning the oxidation of I-methyl cyclohexanol. The synthesis of 1-methyl-3-propylcyclopentane." (p. 1212)

SO: Journal of General Chemistry, (Zhurnal Obshchei Khimii), 1920, Vol. 20, No. 7.

KIPE:MAN, Grigoriy Yakovlevich; TRET YAKOVA, V.N., red.

[Classification of the branches of the national economy of the U.S.S.R.] Klassifikatsiia otraslei narodnogo khoziaistva SSSR. Moskva, Statistika, 1964. 74 p.
(MIRA 17:11)

GAARE, Yu.E.; KAZARINA, A.K.; KIPERMAN, G.Ya.; MALYI, I.G.;
ROZENTAL', O.E.; KOROTKOV, A.F., retsenzent;
TITEL'BAUM, N.P., retsenzent; TRUKHANOVA, A.N., red.;
IL'YUSHENKOVA, T.P., tekhn. red.

[The theory of statistics] Teoriia statistiki. [By] IU.E. Gaabe i dr. Pod red. I.G.Malogo. Moskva, Iskusstvo, 1963. 398 p. (MIRA 16:5)

KIPERMAN, M.

Minima of VW Cephei. Astron.tsir. no.227:16-17 F '62.

1. Odesskoye otdeleniye Vsesoyuznogo astronomo-geodezicheskogo
obshchestva.

(Stars, Variable)

KIPERMAN, S.

PA 18179

USSR/Chemistry - Association Chemistry - Copper

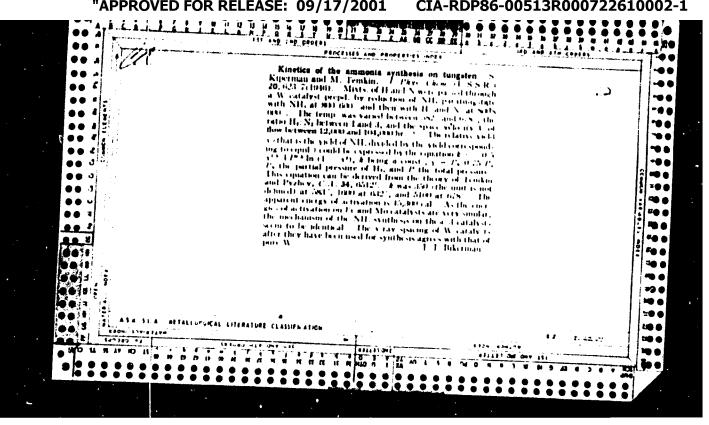
Jun 1946

"The Kinetics of the Decomposition of Ammonia on Copper," S. Kiperman, M. Temkin, 5 pp

"Zhur Fiz Khim" Vol XX, No 6

Discusses the subject, with accompanying tables and graphs, to the conclusion that under like conditions the formula used formerly for the kinetics of the decomposition of ammonia on iron and platinum is the same as that used for determining the kinetics of the decomposition of ammonia on copper.

18779



Kinetics of ammonia avataesis on molyhdenum catalvat. S. Kinerman and M. Temkin (Karpov Inst. Phys. Chem., Muscov). Acta Physicochim. 21, 297 82(1916) (in English); J. Phys. Chem. (U.S.S.R.) 20, 389 78(1916).—The expit. data confirm the work of Temkin and Pychev (cf. C.A. 34, 6512) on the synthesis of NILson promoted by enthyst and extend the results to a Mo catalyst. A flow system was used with 2 cc. of catalyst. The Mo catalyst was prepid, by reducing animonium molybelate.

Job - Chew - Kinetics

in NII, for 20 hrs. at $000^{-150^{\circ}}$. X-ray diffraction patterns indicate that the catulysts operate in the form of metallic Fe and Mo₂N. The data for both catalysts support the kinetic equation suggested by T. and P., the value of α for both catalysts is 0.5. The apparent attention energy of NII, eccompn. on Mo catalyst as called, from the synthesis rate is 42.5 kg.-cal./mok. The NII synthesis on Fe and Mr is considered to have the same mechanism.

APPROVED FOR RELEastly 1N. /2010 and S. intransproperson -00513R000722610002-1"

Inst. Phys. Cliem. Moxog. J. Phys. Chim. (1950-196).

S.R.) 21, 927-62(1947) (in Russian); cf. C.A. 36, 6392*.

The equation for the rate v of reaction, v = k₁P₁(Pk/P)²) and P₁ are the partial pressures of N₁, H₂, and NH₂, resp., and k₁, k₂, and are const., is integrated by assuming the total pressure to be const. The energy of activation is expressed as a function of a. The best compn. of the gas mixt. Is given by P₂:
P₁ = 3a. The above equation is valid only when the system is not too far retroved from the equil. state.

Variations of the adsorbed amit. cf. N₂ may cause the decompn. of NH₂ conens. Consideration of earlier expts. shows that the equation is valid for var ous catalysts (Fc, No., W, U, Ce, Mn., Os., Ru., Cu, and Pt), that a usually is 0.5, and that the activation energy is almost independent of the nature of the catalyst. This proves that the reaction mechanism is klentical on various catalysts. The rate of synthesis should depend on the degree of uniformity of the sould state of the catalyst surface.

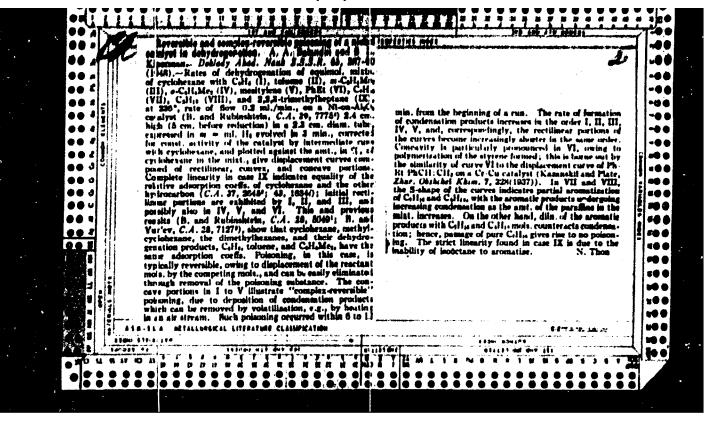
The likerman synthesis should depend on the degree of uniformity of the entalyst surface. 67 references. 1. J. Bikerman

KIPERWAN, S.

Kinetics of the ammonia synthesia on cuthenium. S. Kinethan, Karpov Inst. Phys. Clem. 14.2 (e.g.). J. Phys. Chem. 18.5 R.1.2 (J. 14.5) 45 (1917) (in Kussan); cf. C. 1. 40, 6950!; 41, 332). Mixts of Neword Reverge Lawrence and Herotham Reverge Lawrence (19.00) and 125 (0.1) (in the rate of gas flow between 19.00) and 125,000 (in the rate of gas flow between 19.00) and 125,000 (in the rate of gas flow between 19.00) and 125,000 (in the rate of gas flow between 19.00) and 125,000 (in the rate of gas flow between 19.00) and 125,000 (in the rate of gas flow between 19.00) and 125,000 (in the rate of gas flow between 19.00) and 125,000 (in the rate of gas flow in the rate of gas flow in the real system of H₂ is important and that there exists a particular relation between the mol. forces within the adso bed film. The equation differs but little from the c particular relation between the mol. forces within the adso bed film. The equation differs but little from the c particular relation between the mol forces within the adso bed film. The equation differs but little from the c particular relation states and particular relation of the H adsorption is important for understanding the value of activation energy which, on Ru, is 59,250

the value of activation energy which, on Ru, is 59,250 cal. instead of 40,500 cal. for other catalysts. The difference between these values is 1/4 the adsorption energy of H by Ru.

J. J. Bikerman



CA

Flow-circulation method of investigation of the kinetics of hoteregene use catalytic reactions. M. 1. Temkin, B. L. Kiperman, and L. I. Luk'yanova (L. Ya. Karpov Phys. Chem. Tost., Moncow). Pokiedy Abad. Naub S.S.S.R. 74, 763-6(1960).—The difficulty inherent in the kinetic evaluation of data of conversion in a flow through a column of entalyst of finite length, when the concent of the reactants and products vary from one section of the entalyst to the other as a result of the conversion, and consequently the differentiation of the expt. conversion data, in view of obtaining a differential rate law, becomes uncertain, is eliminated by an adaptation of the idea of Deabligh (C.A. 39, 1009) subsequently utilized by Hammett, at al. (C.A. 44, 47506, 470:/h) for homogeneous reactions. The reacting gas is admitted to the catalyst some at a const. velocity v. is much to circulate through the reaction zone, and is led out at exactly the velocity v. Provided the velocity of the circulation through the reaction zone is very much greater than the velocity v of inflow and outflow, the variation of the compon. of the reacting gas in each single pass is negligible, and that compon can be taken as stationary. A check is provided by spitting the outgoing gas streams each is provided by spitting the outgoing gas streams equal to v. fullillment of the condition of constancy of compon in each single pass is indicated by closeness of the compon. In the

two branches of the outgoing gas. The method was applied to the synthesis of NH₄ from a stoichkemetric N- + 2 He gas mixt, on 1 cc, of a synthetic-ammonia catalyst at 451°, with rates of circulation of 300-3010 i. gas/hr., and v varied between about 9 and 110 i. gas (STF)/hr. With U = vul, of gas flowing in and out per unit time, e = conen, of the product is the total outgring gas, W = vol, of the catalyst, f = free fraction of the catalyst vol., the rate h of the reaction can be expressed by <math>eU/fW, or, in terms of the partial pressure ρ_h of NH₂ in the initial gas mixt., $\rho_h U/fW$, or,

on account of the ins mificant vol. change, $r=p_1U/W$, where $p_A=$ partial p essure of NH₂ in the outgoing gas. The previously estable sed (Temkin, et al., U.A. 34, thit2°; 42, 2501g) kinetic law for the catalytic synthesis of NH₂ $r=h_P n(p_B^4/p_A)^{6/4}-h_1(p_A^2/p_A)^{6/4}$ (with the exponent 0.8 valid for the particu x catalyst), gives $h=\gamma^{1.6/9}h(U_a/W)^2/(1-x^2)$, where $\gamma=p_B/0.75p_a'$; P= total pressure; $U_g=U$ reduced to 0° and 1 atm.; $h=273\ fh_2/0.75^{12}P_aT-(P_d=1)$ atm.); $x=\gamma$ jeld of NH₂ in fractions of the equil NH₂ content (=0.210°;). Hapti. data ($U_d/W=800$), 20.000, 46,000, 69.818; 165.210, 110.000 ml. gas(STP); ini. catalyst/hr., x=0.724, 0.001, 0.401, 0.308, 0.355, 0.302) give $h(xv.)\sim 12\times 10^9$, fairly close to the previously detd. $h=7.8\times 10^9$ by the simple flow method. N. Thun

Ca.

Change in reaction order for animonia synthesis. I. Reaction kinetics on an combinine estalyst. St. L. Kiperman and V. Sh. Granovskaya (Karpov Phys. Chem. That: Moscow). Also. Pis. Kim. 25. 537-64(1951).—The kinetics of Nils, synthesis at atm. pressure was studied between 420 and 600° in a dynamic system on an combinin-on-silka gel entalyst. The catalyst (2 ec.; 1.63 g.) was regularly at 450° in the synthesis gas; reduction was combined at 450° in the synthesis gas; reduction was combined at 470° until const. activity was typehed. Temkin and Pyrhev'n equation for the rate: $r = l_1 h_{01} \rho^m \cdots h_1 l_2 l_3 \rho^{m-1} + h_1 l_2 l_3 l_3 \rho^{m-1} + h_2 l_3 \rho^{m-1} + h_3 l_3 \rho^{m-1} + h_4 l_4 \rho^{m-1} + h_4 l_3 \rho^{m-1} + h_4 l_4 \rho$

and the 3nd set are obtained with a $p_{11}, p_{12}, \dots = 3:1$ mixt. The lat set gives $V, x, and b \times 10^{-2}$ at various temps; when the value of the rate const. is b^2 and not b, the figure is italiciant. At 431^4 1 (7180, 0.044, 0.31), (14300, 0.025, 0.34), (33840, 0.013, 0.30), (01180, 0.001, 1), (14300, 0.025, 0.34), (43840, 0.013, 0.30), (01180, 0.034, 1), (43100, 0.007, 1.3), (39100, 0.035, 1.6), (37800, 0.121, 1.5, 1.4), (60250, 0.026, 1.3), (72800, 0.021, 1.5, 1.4), (60250, 0.026, 1.3), (72800, 0.021, 1.5, 1.4), (40250, 0.026, 1.3), (108000, 0.030, 6.3), (11730, 0.035, 6.0), (74250, 0.021, 5.4), (40250, 0.026, 6.3), (108000, 0.030, 6.3), (11730, 0.035, 6.0), (74250, 0.026, 6.6), (108000, 0.030, 6.3), (11730, 0.035, 6.0), (74250, 0.026, 6.6), (108000, 0.030, 6.3), (11730, 0.035, 6.0), (74250, 0.026, 6.6), (4000, 0.047, 6.0), (22600, 0.344, 4.8), (46925, 0.456, 4.4), (63900, 0.354, 4.3), (81200, 0.301, 3.8), At 800°; (18300, 0.908, 13.3), (23250, 0.077, 8.3), (64901, 0.314, 4.8), (46925, 0.415, 4.8), (46920, 0.396, 4.3), (81200, 0.391, 3.8), At 800°; (18300, 0.908, 13.3), (23250, 0.077, 8.3), (64901, 0.306, 4.6). The 2nd set gives P_1 , P_2 , and P_3 at two different values of V_1 , P_2 , P_3 ,

TEMKIN, M. I., ROMANUSHKINA, A. YE., KIPEHMAN. S. L.

Nitrogen

Determination of small amounts of nitrogen in gases. Zhur. anal. khim. 7 No. 5, 1952.

9. Monthly List of Russian Accessions, Library of Congress, December 1955, Uncl.

KIPERMAN, S.L.

USSR/Chemistry - Catalysts

May 52

"Reduction of a Cetalyst With Atomic Hydrogen," S. L. Kiperman, N. A. Rybakova, M. I. Temkin, Phys Chem Inst imeni L. Ya. Karpov, Moscow

"Zhur Fiz Khim" Vol XXVI, No 5, pp 621-623

Reduction of wolframic acid anhydride with atomic hydrogen at low temps produces a W catalyst for ammonia synthesis which shows a higher activity at atm pressure than W catalysts obtained by ordinary reduction at high temps.

21913

quence of the reaction of ammonia synthesis, caused by the change in the degree to which the surface of the catalyst is covered with N confirms

previously developed ideas.

action does not depend on the partial pressures of H and ammonia as is the case on an Os cata-

departure from equil, when there is a small vol of ammonia gus, the order of the reaction changes. Where the yields of ammonia are relatively small, the kinetics of the reaction are represented by the eq, waklfn2, that is, the rate of the re-

lyst. Author says that the change in the se-

KIHERMAN, S. L.

TA 242T9

con/coemia my - symmesis of

USER/Chemistry - Synthesis of Ammonia

Nov 52

The Change in the Reaction Order in the Synthesis of Ammonia: II. Research Into the Kinetics of the Reaction on an Iron Catalyst, at a Point Removed From Equilibrium," S. L. Kiperman and Y. Sh. Granovskaya, Physicochem Inst imeni L. Ya. Karpov, Moscov

"Zhur Fiz Khim" Vol 25, No 11, pp 1615-1618

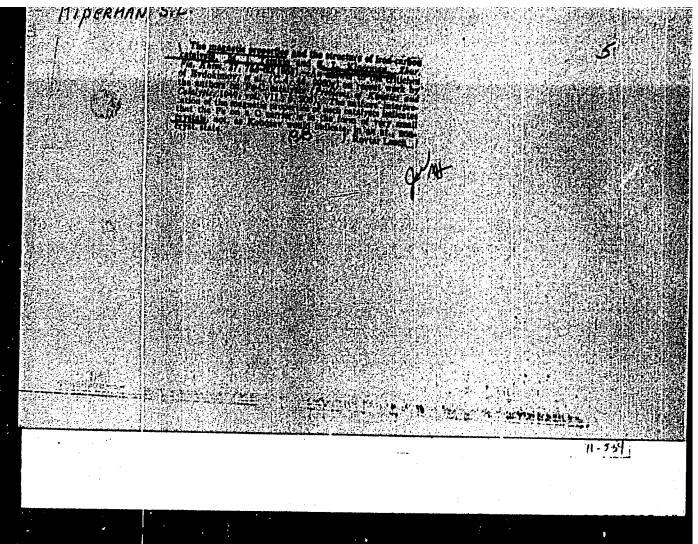
The authors obtained data regarding the kinetics of ammonia synthesis on two specimens of Fe catalyst at atm pressure. If there is a significant

61272

542T9

APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000722610002-1"



USSR/Chemistr	7	
Card 1/1		
Authors	i K1	perman, 8, L,
Title	i hb ox	out the kinethics of the synthesis of ammonia in the presence of year or water vapor
Periodical	ı, Zh	ur. Fis. Khim, 28, Ed. 3, 389-401, March 1954
Abstract	i In	vestigated was the mechanism of reaction necessary for the
	ey oa an th th th th we	nthesis of ammonia in the presence of oxygen, water vapor or room monoxide and an equation of the kinetics is introduced. An alysis of this equation is included. A study was made to determine change in the sequence of reaction in the presence of a poison ring considerable departure from the equilibrium and to determine effect of pressure on the rate of reaction. Kinetic equations realso introduced for these cases. The obtained ratios are in odd conformity with the experimental data available in literature, enty six references. Tables.
Institution	ey oa an th th th th we	nthesis of ammonia in the presence of oxygen, water vapor or room monoxide and an equation of the kinetics is introduced. An alysis of this equation is included. A study was made to determine change in the sequence of reaction in the presence of a poison ring considerable departure from the equilibrium and to determine effect of pressure on the rate of reaction. Kinetic equations we also introduced for these cases. The obtained ratios are in odd conformity with the experimental data available in literature.
Institution Submitted	Sy oa an th th th th sys Tw	nthesis of ammonia in the presence of oxygen, water vapor or room monoxide and an equation of the kinetics is introduced. An alysis of this equation is included. A study was made to determine change in the sequence of reaction in the presence of a poison ring considerable departure from the equilibrium and to determine effect of pressure on the rate of reaction. Kinetic equations we also introduced for these cases. The obtained ratios are in odd conformity with the experimental data available in literature.

KIPERMAN, SI

AUTHORS:

Kiperman, S.L., Balandin, A.A., Davydova, I.R.

62-12-9/20

TITLE:

On the Influence Exercised Upon the Activity of the Nickel Skeleton Catalyst of Fine Crushing by Means of Vibration (C vlipanii na aktivnost' skeletnogo nikelevogo katalizatora tonkogo izmel'chemiya putem vibratsionnogo pomola)

PERIODICAL:

Izvestiya A: SSSR Otdeleniye Khimicheskikh Hauk, 1957, Nr 12, pp. 1482-1484 (USSR)

ABSTRACT:

The skeleton catalysts obtained by the leaching of the respective alloys are today widely in use (in particular for the carrying out of reactions in the liquid phase). In this connection too little attention is paid to the important dispersion, especially when pulverized catalysts are used. In order to explain the influence exercised by the dispersion of oatalysts upon their activity the nutbers employed the method of fine crushing of the nickel-aluminum alloye (see table and diagram). As regards the result of the experiment it may be said that the activity (and specific activity) of the nickel-skeleton catalysts, which had previously been pulverized by vibration crushing, showed a higher activity of catalysts in the reactions of their hydrogenesis of cyclohexane and the dehydrogenerization of

Card 1/2

On the Influence Exercised Upon the Activity of the Nickel Skeleton Satalyst of Fine Crushing by Means of Vibration

62-12-9/20

the isopropyl alcohol in the liquid phase. It is assumed that the cause of the increased activity is due to a change of the micro-roughness of the surface or by the existence of an internal diffusion deceleration. There are 1 figure, 1 table, and 7 references, 6 of which are Slavio.

ASSOCIATION: Institute for Organic Chemistry AN USSR imeni N.D. Zelinskiy

(Institut organicheskoy khimii im. K.D. Zelinskogo Akademii muk

SSSR).

SUBMITTED: July 9, 1957

....

AVAILABLE: Library of Congress

Card 2/2

1. Nickel skeleton catalyst-Crushing-Vibration 2. Nickel aluminum-Alloys

SIE, KIPERMAN, S.L.

USSR/Physical Chemistry - Kinetics, Combustion, Explosions,

B-9

Topochemistry, Catalysis.

Abs Jour

Referat Zhur - Khimiya, No 1, 1958, 509

Author

A.A. Balandin, S.L. Kiperman.

Inst

Title

To the Question of Kinetics of Dehydrogenation of Alcohols

Orig Pub

: Zh. fiz. khimii, 1957, 31, No 1, 139-149

Abstract

Basing on the assumption that the process proceeds in stages, the general equation of kinetics of alcohol dehydrogenation on a quasihomogeneous catalyst surface (RZhKhim, 1954, 33897) was derived by the method of stationary concentrations; this equation agrees with experimental data. If the speed constant c2 of the surface reaction is less than the speed constant of desorption of alcohol and reaction products, then the constants in the denominator of the kinetic equation will represent corresponding adsorption factors, but if c2 is greater than the other

Card 1/2

AUTHOR TITLE KIPERMAN, S.L., BALANDIN, A.A., Member of the Academy.

On Bond Energy between nickel catalysts and various elements of Organic Compounds.

20-2-26/67

(O velichinakh energii svyazi nikelevykh katalizatorov s elemen-

tami organicheskikh soyedineniy - Russian)

PERIODICAL.

Doklady Akademii Nauk SSSR, 1957, Vol 113, Nr 2, pp 335-338,

(U.S.S.R.)

Received m6/1957 Reviewed 7/1957

ABSTRACT

When solving the problem of scientific selection of catalysts the determination of binding energies of the latter with differnet elements is of essential importance. Here the following methods are applicable; the thermochemical, the adsorption-chemical, and the kinetic method. The latter was in former times used only in connection with the oxydation catalysts . The authors here attempt to apply this method for the computation of bond energy by means of reactions not applied before. They investigated the bond energies of the nickel-catalysts with hydrogen and deuterium, with carbon on the occasion of a double bond and of a simple bond, with oxygen and with nitrogen. As obvious from the theories quoted above the kinetical method can be applied for finding out the bond energy values of the nickle-catalysts with different elements under application of such reactions as paraortho-transformation of hydrogen, isotope exchange, hydrogenisation and hydrogenolysis. The values chiefly harmonize with

Card 1/2

CIA-PDP86-00513R000722610002-1"

KINERMAN, SZ.

32-2-30/60

AUTHORS:

Kiperman, S. L. . Davydova, I. R.

TIPLE:

The Dosage of Pyroforic Catalysts (Dozirovka pirofornykh

katalizatorov)

PERIODICAL:

Zavodskaya Laboratoriya, 1958, Vol. 24, Nr 2, pp. 221 - 222

(USSR)

ABSTRACT:

A method for the weighing of catalysts, which are inactivated, when exposed to air, was developed in the laboratory of the Member of the Academy A. A. Balandin. On a spiral made of tungsten wire a glass ampule is mounted, which is dipped in to a container filled with liquid. Previous to each determination a calibration is performed by measuring with a cathetomater the extension of the spiral at a given temperature with taring-weights. The measurement is then repeated with the catalyst dispersion under investigation. The weight can then be calculated from a formula containing the density of the liquid at a given temperature, the specific weights of the taring-substance, as well as that of the catalyst. The

Card 1/2

APPROVED FOR RELEASE: 09/17/2001 CIA-RDI

CIA-RDP86-00513R000722610002-1"

The Dosage of Pyroforic Catalysts

32-2-38/60

determination takes from 3 to 5 minutes.

ASSOCIATION: Institute for Organic Chemistry imeni N. D. Zelinski AN USSR (Institut organicheskoy khimii im. N. D. Zelinskogo Akademii

nauk SSSR)

AVAILABLE: Library of Congress

1. Catalysts-Weight determination

Card 2/2

5(4) AUTHORS:

Kiperman, S. L., Balandin, A. A.

TITLE:

The Bond Energy of the Surface of Metallic Catalysts With Hydrogen and Deuterium (Energiya svyazi poverkhnosti metalli-cheskikh katalizatorov s vodorodom i deyteriyem)

507/76-33-4-12/32

PERIODICAL:

Zhurnal fizichoskoy khimii, 1959, Vol 33, Mr 4, pp 828-834 (USSR)

ABSTRACT:

In a previous paper (Ref 8) a report was given on the application possibility of a variant of the kinetic method of determining the formation energy (FE) of nickel catalysts with elements of organic compounds. In the present case the amount of (FE) of different metallic catalysts (Ni, Fe, Pt and Pd) with hydrogen (I) and deuterium (II) was determinel. The reaction of the para-ortho-conversion of (I), of the ortho-para-conversion of (II) and of the isotopic exchange of (I) with (II) was used for the computation of (FE) from the kinetic data. The conputations are made according to the derived equations (4)-(7), (9), (10), (12) and (13) as well as according to the corresponding data from publications. The values of (FE) obtained with (I) and (II) are tabulated (Table). The (FE)-values for different metals are rather similar; however, it is pointed out that the reaction mechanism on some catalysts is determined by

Card 1/2

507/76-33-4-12/32 The Bond Energy of the Surface of Metallic Catalysts With Fydrogen and

adsorption and on others by desorption so that this fact may explain a difference. On the basis of the similar (FE)-values it is assumed that the reaction on the various netal surfaces takes place mainly on the active spots which show optimum (FE)-values. Since in the determination of (FE) according to heat absorption on the one hand, only the active spots at which adsorption takes place are taken into account, and on the other hand, equation (16) assumes a complete destruction of the bonds whereas in the case of the kinetic method (on the basis of the multiplet theory of catalysis) only a deformation of the bonds is assumed, the (FE)-values obtained according to the kinetic method and those obtained from the values of advorption heat differ from each other. It is said that special investigations must be carried out on the applicability of the Pauling sule for the above determinations. There are 1 table and 33 references, 17 of which are Soviet.

ASSOCIATION: Akademiya nauk SSSR, Institut organicheskoy khimii im. N. D.

Zelinskogo (Academy of Sciences of the USSR, Institute of Organic

Chemistry imeni N. D. Zelinskiy) SUBMITTED:

Card 2/2

September 18, 1957

5(4) AUTHORS:

Kiperman, S. L., Balandin, A. A.

507/76-33-9-26/37

TITLE:

The Bond Energica of the Surface of Metallic Catalysts

With Carbon

PERIODICAL:

Zhurnal fizicheskoy khimii, 1959, Vol 53, Nr 9,

pp 2045 - 2052 (USSR)

ABSTRACT:

The applicability of a variation of the kinetic method (Ref 3) used for the determination of the bond energies of the surface of nickel catalysts with elements of organic compounds was indicated in previous articles (Refs 1,2). Further, the bond energy (BE) of hydrogen (I) with metallic catalysts (C) was calculated. This method is used here for a determination of the (BE) of the surface of metallic (C) with carbon (II). It was based on the amount of (BE) with light and heavy (I), which had been obtained by reactions of para- and ortho-conversion and the activation energy of the isotopic exchange, the hydrogenation and hydrogenolysis of organic compounds in the presence of these (C). The formation of duplet complexes between the initial substance (IS) and the (C) is considered to be a slowly proceeding inter-

Card 1/3

The Bond Energies of the Surface of Metallic Catalysts S07/76-33-9-26/37 With Carbon

mediate stage which is termed adsorption stage (AS). On the basis of the multiplet theory of catalysis the (AS) is characterized by the height of the energy barrier E, which depends on the adsorption heat of the (IS) on the catalytically active parts of the (C)-surface. The authors investigated the following reactions and calculated the (BE) of (II) with the surfaces of Ni, Fe, Pt, and Pd catalysts (Table): $c_2H_6+H_2 = 2 CH_4 (1), CE_4+D_2 = CH_3D+HD (2), c_2H_4+H_2=c_2H_6 (8),$ $c_{2}H_{4}+D_{2}=c_{2}H_{3}D+HD$ (9), $c_{2}H_{2}+H_{2}=c_{2}H_{4}$ (14), $c_{1}H_{2}=c_{1}H_{2}=c_{1}C_{1}H$ =CH₂ (15), C₆H₆+D₂=C₆H₅D+HD (21). The resultant (BE) are mean values of the reactive region of the (C)-surface. A multiple tond of (II) increases the strength of the (II)-bond with respect to the (C)-surface. The formation of a tricyclic or aromatic ring in addition to a simple or double bond, for example, yields a (II)-(C) bond that is stronger than that of (II). With a slight variation in the activity of the (C), as well as with a transition from the one metal to the other,

Card 2/3

The Bond Energies of the Surface of Metallic Catalysts 507/76-33-9-26/37 With Carbon

also the corresponding (BE) varies to a relatively small extent. This indicates that the reaction of organic compounds with (II) on the (C)-surface apparently proceeds at the points of maximum (BE). In conclusion, the scientist V. N. Kondrat'yev is mentioned. There are 1 table and 24 references, 9 of which are Seviet.

ASSOCIATION: Akademiya nauk SSSR, Institut organicheskoy khimii im. N. D.

Zelinskogo (Academy of Sciences of the USSR, Institute of

Organic Chemistry imeni N. D. Zelinskiy)

SUBMITTED: March 6, 1958

Card 3/3

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722610002-1

C/005/60/000/007/001/004 F031/F004

AUTHOR:

S. L. Kiperman

TITLE:

Some characteristics and principles in realizing patalytic processes

PERIODICAL:

Hua Heileh Tiung Pao, no. 7, 1960, 1-7

TEXT: The article was written by a Soviet catalysis expert during a visit to China. A general introduction to the principles of catalysis and catalytic processes is given and various theories of catalysis are reviewed. Catalysis is defined and applications of catalysis in industries are listed. Characteristics of catalysis are as follows: {1} Positive catalysis expedites chemical reactions, lowers reaction temperature, and reduces the fuel consumption of equipment. (2) Catalysis neither induces a chemical reaction nor changes the chemical equilibrium thermodynamically. (3) Gatalysts downot change in reactions they catalyze. (4) Catalysis expedites both positive and reverse reactions. (5) Catalysis has high selectivity. (6) By nature most elements and their salts can catalyze. (7) Catalysis may be conducted in the various physical states

Card 1/3

C/005/60/000/007/001/004 F031/F004

Some characteristics and ...

matter. (8) Each kind of catalyst has an optimum specific catalyzing condition. (9)
Catalysis may be either single phase or of multiphase. (10) Solid catalysts may be used in different forms as conditions dictate. (11) Activity of a selid catalyst is closeby related to the conditions under which it is prepared or processed. (12) The catalyst carrier affects directly or indirectly the activity of the catalysts. (13) Solid catalysts may be poisoned by minute amounts of certain elements on compounds. (14) Activity dispersion, and surface area are closely related to the crystal structure of the catalysts. (15) Different catalysts show different effects in a single process. (16) Actual conditions determine the use of catalysts—single phase or multiphase. (17) in some cases catalysis is requires a series of supplementary procedures to attain completiot. (18) Catalysis is divided into two major processes—electron exchanging and particle exchanging. (19) of the basic objective of catalysis is to control and direct reactions in a desired direct tion. The author divides the history of the development of catalytic theories into 4 stages and concludes that although much has been developed, catalysis is evil in its infancy.

Further development is desired. The paper was translated into Thirese by Chang Huni-

Card 2/3

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722610002-1

Some characteristics and ...

C/005/60/000/007/001/004 F031/F004

yii (1728/2037/3768) and Jen Hsin-min (0117/2450/3046).

ASSOCIATION: Institute of Organic Chemistry, Academy of Sciences USSR

Card 3/3

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722610002-1

KIPERMAN, S.L.; BALANDIN, A.A.

Energies of the bonds between nickel, iron, platimum, and palladium catalysts and the atoms of elements in organic compounds. Probl. kin. i kat. 10:344-350 '60. (MIRA 14:5)

Tes.

1. Institut organicheskoy khimii AN SSSR. (Chemical bonds) (Catalysts)

COTENCE: The articles is this collection were read at the confirmace on the Physics and Physical Chemistry of Catalysis organized by the Medal thinicacethin mank MI SECH (Section of Chemical Science, Academy of Science UGE) and by the Academic Council on the problem of "the actualitie bases for the selection of catalysts." The Conference was held at the Jantitut finishesby thinii AI SECH (Institute of Physical Chemistry of the AF URIS) in Moose W. Karth 20-25, 1375. Of the great volume of material presented at the conference, only papers not published elsewhere were included in this collection.

11.1220

33494

S/195/61/002/005/021/027 E030/E185

AUTHORS:

Kiperman, S.L., and Davydova, I.R.

TITLE

Kinetics of the para-ortho hydrogen conversion, and use of this reaction in studying the mechanism of catalytic processes

PERIODICAL: Kinetika i kataliz, v.2, no.5, 1961, 762-772

TEXT: The para-ortho hydrogen conversion was studied experimentally, using deuterium and the isotope exchange to study the reaction at temperatures from 21 to 86 °C and pressures from 23 to 105 mm Hg, over a reducing catalyst, nickel, which had been preheated in atmospheres of varying oxygen concentration. The order of the reaction is 0.6, and the energy of activation about 6.8 kcal/mole. As the concentration of oxygen during the pretreatment of the catalyst increases, the energy of activation increases at first, but then oscillates around a stable value. Similar experiments were conducted on other catalytic processes, as follows. Para-ortho and ortho-para conversion was studied on synthetic polymers with known catalytic activity and semiconducting properties. Those chosen were: 1) ash-free active charcoal

33494 S/195/61/002/005/021/027 Kinetics of the para-ortho hydrogen... E030/E185

(as reference standard); 2) polyvinylmethylketone, heated in nitrogen at 1000 °C; 3) polyparadiethinylbenzol heated to 600 °C; and 4) the same, heated to 500 °C. The decomposition of formic acid on these was observed, and it occurred quickly, although hydrogen was sorbed very slowly, and only about 10% monolayer coverage was obtained, thus indicating surface nonuniformity for the catalysis. The greatest activity was for specimen 4, and this also had the strongest electron-paramagneticresonance signal, thus correlating the unpaired hydrogen spins with catalytic activity in a magnetic process. Dehydration of alcohols on nickel was also studied, by observing the conversion of pure parahydrogen (produced on charcoal at -196 °C) on nickel at room temperature to proceed very rapidly to the equilibrium ortho-para ratio, but to hardly proceed at all in the absence of the catalyst. Since this conversion process is also involved in the dehydration of alcohols, it follows this cannot be the stage limiting the reaction rate. Other possible applications would be in dissociative adsorption of hydrocarbons, whose possibilities would be indicated by an increase in the velocity of ortho para Card 2/4

33494

Kinetics of the para-ortho hydrogen... S/195/61/002/005/021/027 E030/E185

contributions in this field. There are 4 figures, 1 table and 41 references: 19 Soviet-bloc, 2 Russian translations from non-Soviet publications, and 20 non-Soviet-blos. The four most recent English language references read as follows;

Ref. 26: R.C. Campbell, S. Thomson,

Trans. Faraday Soc., v.57, 279, 1961.

Ref. 28: P.H. Lewis, J. Phys. Chem., v. 64 1103 1960. Ref. 34; D. Eley, H. Inokuchi, M. Willis,

Disc. Faraday Soc., v.28, 66, 1959.

Ref. 37: R. Golway, C. Kemball,

Trans. Faraday Soc., v.55, 1959 1959.

ASSOCIATION: Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR

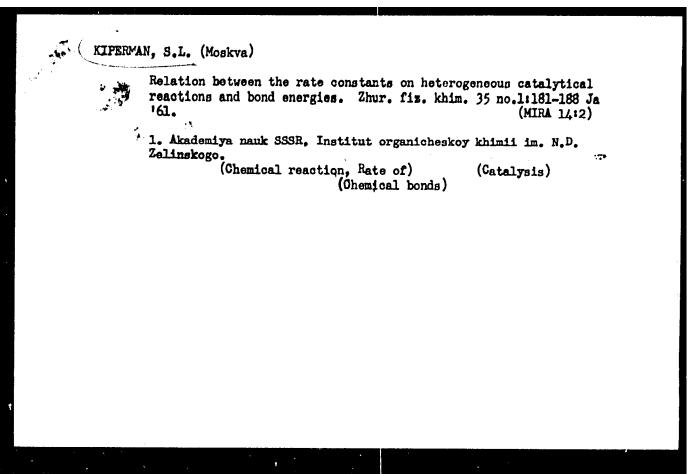
(Institute of Organic Chemistry imeni N.D. Zelinskiy, AS USSR)

Card 4/4

KIPERMAN, S.L.; NIKOLAYEVA, N.V.

Application of the principle of the recycling flow method to the study of the kinetics of heterogeneous catalytic reactions in the liquid phase. Kin.i kat. 2 no.6:936-939 N-D '61.

1. Institut organicheskoy khimii imeni Zelinskogo AN SSSR. (Catalysis)



KIPERMAN, S.L.

Kinetics of heterogeneous catalytic reactions in the liquid phase studied by gradientless methods. Kin.i kat. 3 no.4:520-522 Jl-Ag '62. (MIRA 15:8)

1. Institut organicheskoy khimii imeni N.D.Zelinskogo AN SSSR. (Catalysis)

KIPERMAN, S.L.; NIKOLAYEVA, N.V.; DAVYDOVA, I.R.

Kinetics and mechanism of the dehydrogenation of isopropyl alcohol in the liquid phase. Trudy Inst.khim.nauk AN Kazakh.

SSR 8:3-20 '62. (MIRA 15:12)

(Isopropyl alcohol) (Dehyrogenation)

DAVYDOVA, I.R.; KIPERMAN, S.L.; NIKOLAYEVA, H.V.

Kinetics of isopropyl alcohol dehydrogenation in the liquid phase. Part 1. Kin. i kat. 4 no.4:605-613 J1-Ag '63.

(MIRA 16:11)

1. Institut organicheskoy khimii imeni N.D. Zelinskogo kai Josh.

KIPERMAN, S.L.; NIKOLAYEVA, N.V.; DAVYDOVA, I.R.

Kinetics of isopropyl alcohol dehydrogenation in the liquid phase.
Part 2. Kin.i kat. 4 no.5:723-735 S-0 '63. (MIRA 16:12)

1. Institut organicheskoy khimii imeni N.D.Zelinskogo AN SSSR.

SLINKIN, A. A.; LEVI, G. I.; KIPERMAN, S. L.

Calculation of the energy of bonds between the catalyst surface and the reacting atoms of organic molecules (on the article by V. Kh. Matiushenko "Theory of catalyst selection and the bond energy"). Zhur. fiz. khim. 37 no. 3:712-715 Mr 163.

(MIRA 17:5)

1. Institut organicheskoy khimii imeni Zelinskogo AN SSSR.

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722610002-1

KIPERMAN, S. L.

"The investigation on intermediate surface compounds occurring in elementary stages of heterogeneous catalytic reactions."

report submitted to 3rd Intl Cong on Catalysis, Amsterdam, 20-25 Jul 64.

Inst of Organic Chemistry im Zelinskiy, AS USSR, Moscow.

KIPERMAN, Saveliy L'vovich; EYDYS, Ya.T., doktor khim. neuk, otv. red.; FEDOROVICH, R.M., red.

[Introduction to the kinetics of heterogeneous catalytic reactions] Vvedenie v kinetiku geterogennykh kataliticheskikh reaktsii. Moskva, Izd-vo"Nauka", 1964. 606 p. (MIRA 17:7)

KIPERMAN. S.L.; KAPLAN, G.I.

Kinetics of hydrogenation in a gradientless system. Kin. 1 kat. 5 no.5:888-897 S-0 164. (MIRA 17:12)

1. Institut organicheskoy khimii imeni Zelinskogo AN SSSR.

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722610002-1

